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PN - JP63105029 A 19880510
TI - PRODUCTION OF POLYETHER MONOALCOHOL
FI - C07C43/11 ; C08G65/26&NQN ; C07C41/00&X ; C07C67/00&X ; C08G65/26
PA - HODOGAYA CHEMICAL CO LTD
IN - OKABE KENSHO; TAKEUCHI SHUICHI
CT - JP38005442 A []; JP50102698 A []; JP63105030 A []
AP - JP19860249730 19861022
PR - JP19860249730 19861022
DT - |

XP 002166587

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AN - 1988-165785 [24]
TI - Polyether-mono:alcohol for prepn. of polyurethane resin - prepd. by polymerising THF in presence of active hydrogen cpd. and initiator contg. Lewis acid and cyclic ether
AB - J63105029 Polyethermonoalcohol is prepd. by polymerising THF in the presence of a cpd. with one active H atom in it and polymerisation initiator comprising a Lewis acid a 3- or 4-membered cyclic ether. Pref. the cpd. with one active H atom is pref. monoalcohol (e.g. (m)ethanol, propanol, isopropanol, benzyl alcohol, cyclohexanol, etc.), monophenol (e.g. phenol, cresol, butyl phenol, naphthol, etc.), monocarboxylic acid (e.g. formic, acetic, propionic, butyric, caprylic, lauric, stearic, (meth)acrylic, oleic, benzoic, succinic acid, etc.) or thiol (e.g. (m)ethyl, allyl, oleyl or benzyl mercaptane, etc). The Lewis acid is pref. BF₃, PF₅, SbF₅, AlCl₃m SnCl₄, SiO₂, TiO₂ or complex of BF₃ PF₅ or SbF₅ and dimethyl ether or THF. The cyclic ether is pref. epoxide (e.g. ethylene- or propylene-oxide or epichlorohydrin) or oxetane (e.g. oxetane, 3,3-bis(chloromethyl)oxetane, etc.). The polymerisation is carried out at minus 30 deg.C to plus 60 deg.C using excess amt. of THF as a solvent or an inert organic solvent (e.g. benzene, toluene, diethyl- or dibutyl-ether).
- USE/ADVANTAGE - The process provides polyethermonoalcohol comprising polyoxytetramethylene chain with one capped terminal quantitatively. The polyethermonoalcohol is used for prepg. polyurethane-, polyester- or polyamide-resin with high elasticity, resistance to water and cold.(0/0)
IW - POLYETHER MONO ALCOHOL PREPARATION POLYURETHANE RESIN
PREPARATION POLYMERISE THF PRESENCE ACTIVE HYDROGEN
COMPOUND INITIATE CONTAIN LEWIS ACID CYCLIC ETHER
AW - TETRA HYDRO FURAN
PN - JP63105029 A 19880510 DW198824 004pp
IC - C07C43/11 ; C08G65/26
MC - A02-A04 A05-H05 E07-A02E E07-A03 E10-H01E E31-K07 E31-M E31-P03 E31-Q02
E34-C03 E35-H E35-K02
DC - A25 E19
PA - (HODO) HODOGAYA CHEM IND CO LTD
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PR - JP19860249730 19861022

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AB - PURPOSE: To easily obtain the titled alcohol wherein one of both terminals is quantitatively capped, at a low cost, by polymerizing THF in the presence of an active hydrogen-containing compound using a Lewis acid and a cyclic ether as polymerization initiators.

- CONSTITUTION: A polyether monoalcohol is produced by polymerizing tetrahydrofuran in the presence of a compound containing one active hydrogen atom in one molecule using a Lewis acid and a 3-4-membered cyclic ether. The active hydrogen-containing compound is a compound having hydroxyl group, carboxyl group or thiol group, e.g. methanol, cyclohexanol, etc., and the ether is selected from epoxides or oxetanes.

I - C08G65/26 ; C07C43/11

PA - HODOGAYA CHEM CO LTD

IN - OKABE KENSHO; others: 01

ABD - 19880920

ABV - 012349

GR - C529

AP - JP19860249730 19861022